CSBio 2015
Bangkok, Thailand

The 6th international conference on Computational Systems-Biology and Bioinformatics 2015

55th ANNIVERSARY 1960 - 2015 · KMUTT King Mongkut's University of Technology Thonburi · BIOTEC a member of NSTDA · มหาวิทยาลัยเกษตรศาสตร์ Kasetsart University

22-25 November 2015
Chatrium Hotel Riverside, Bangkok, Thailand

"The Next-Generation Computational Biology"

With the advancement in next-generation molecular technology in generating the high-throughput "omics" data, life science has come to the era of "Big Data". To extract biological knowledge from the data, and translate it into benefits for society (e.g. better medicine and healthcare), novel and advanced computational tools are needed for data analysis. CSBio 2015 would like to invite researchers and industrial counterparts to meet at this event to exchange ideas and stimulate research collaborations.

CALL FOR PAPERS

We invite you to submit either abstracts, extended abstracts, and full papers as the following choices:
1. Poster presentation: Abstracts
2. Conference proceedings: Extended abstracts (not exceed 5 pages)
3. Full research papers to be considered for
   - Journal of Bioinformatics and Computational Biology (JBCB)
   - Computational and Structural Biotechnology Journal (CSBJ)

TOPICS include (but are not limited to)

Adaptive computation in bioinformatics	Gene expression analysis
Bio-data visualization	Medical and biomedical informatics
Bio-inspired computing	Modeling and simulation of biological processes, pathways, etc.
Biological network reconstruction and analysis	Molecular evolution and phylogeny
Biomarker discovery	Next-generation sequencing
Disease classification	Parallel and distributed computing for life science
DNA, RNA and protein sequence analysis	Population genetics
Drug discovery and validation	Proteomics and other omics
Epigenetics or epigenomics	Protein folding
Functional genomics	Translational bioinformatics

IMPORTANT DATES

Paper submission deadline	**31 July 2015 (Extended)**
Notification date	**15 September 2015**
Early-bird registration deadline	**22 September 2015**

KEYNOTE SPEAKERS

Steve Rozen, Ph.D.
Duke-NUS Graduate medical school, Singapore
On *"Genome bioinformatics' current successes, challenges, and opportunities in the era of low-cost sequencing"*

Saman K. Halgamuge, Ph.D.
University of Melbourne, Australia
On *"Big data analysis in Metagenomics"*

INVITED SPEAKERS

Panagiotou Gianni, Ph.D.
The University of Hong Kong, Hong Kong
On *"Microbiome systems biology"*

Sissades Tongsima, Ph.D.
BIOTEC, Thailand
On *"Complex population substructure and genome wide association studies"*

Philip Shaw, Ph.D.
BIOTEC, Thailand
On *"RNA-seq methods for studying the malarial transcriptome"*

Prapat Suriyaphol, Ph.D.
Mahidol University, Thailand
On *"Precision medicine: The future of healthcare"*

WORKSHOPS

"Next-Generation Sequencing Data Analysis" by
Weerayuth Kittichotirat, Ph.D. and
Teeraphan Laomettachit, Ph.D.
KMUTT, Thailand

"Algorithms for Detecting Protein Complexes from Whole-Genome PPI Networks" by
Leong Hon Wai, Ph.D.
National University of Singapore, Singapore

For more information:

http://www.csbio.org/